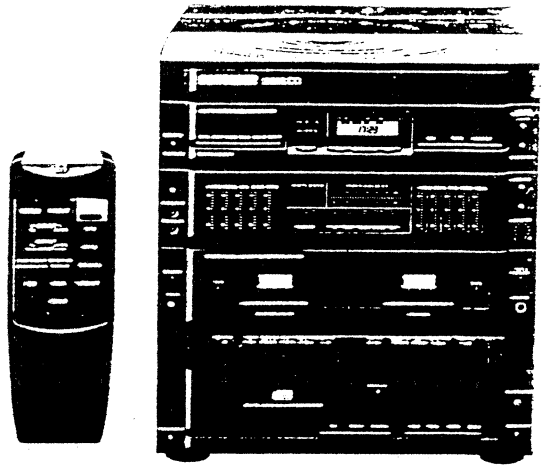
UHER

MODEL NO. COMPACT 1000CD
AM/FM STEREO SYNTHESIZED
RECEIVER/CASSETTE PLAYER/
CASSETTE RECORDER/
HORIZONTAL CD/TURNTABLE/
REMOTE CONTROL

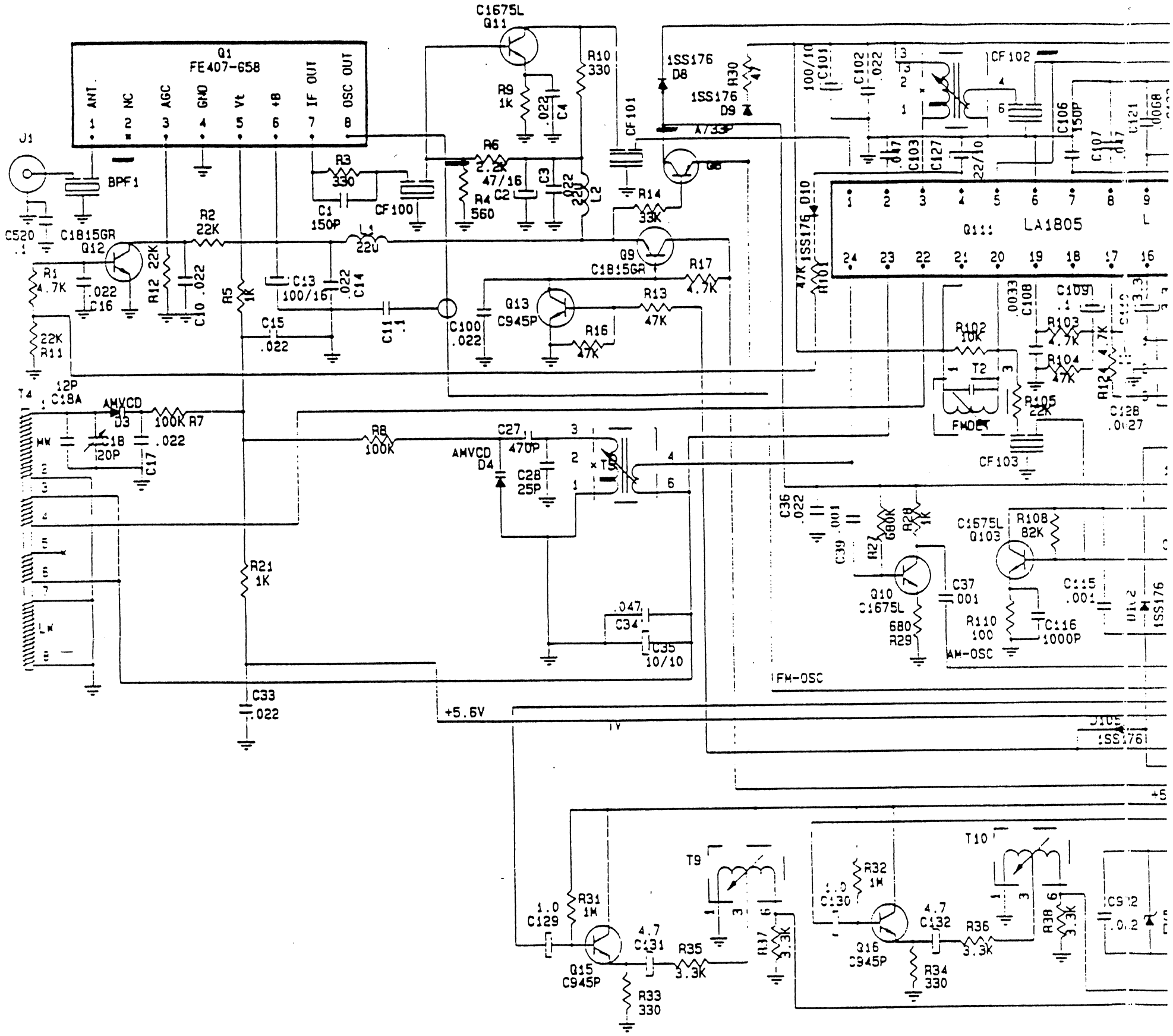


SPECIFICATION

Power Output	20W rms per channel, into 8 ohm loads with both channels driven, at frequency from 40Hz to 20KHz, with no more than 0.9% total harmonic distortion (T.H.D.).
AM Tuner:	
Frequency Range:	531KHz to 1602KHz
Intermediate Frequency:	450KHz
20dB Quieting Sensitivity:	750uV/m
Signal to Noise Ratio:	40dB
Total Harmonic Distortion (30% MOD.)	1%
Image Rejection (600KHz):	40dB
FM Tuner:	
Frequency Range:	87.5MHz to 108.0MHz
Intermediate Frequency:	10.7MHz
30dB Quieting Sensitivity:	12.2dbf
Signal to Noise Ratio (75KHz DEV.)	65dB
Total Harmonic Distortion (22.5KHz DEV.):	1%
Stereo Separation (1KHz):	30dB
AM Suppression:	40dB
Cassette Deck	
Tape Speed:	±2%
WOW & Flutter:	0.15%
Frequency Response:	125Hz 4dB 1KHz 4dB 10KHz 4dB
S/N Ratio:	55dB
Separation:	35dB
Turntable	
Speed:	33-1/3 and 45 rpm
WOW & Flutter:	0.3%
Cartridge Frequency Response	100Hz to 6.3KHz
Power Source:	230 Volt, AC; 50Hz
Power Consumption	150W
Dimensions:	360(W)x440(H)x350(D)m/m
Weight:	10.5Kg (22.1 lbs)

SERVICE PUBLICATION

Note: All the specifications and features are subject to change without notice.


Q1
FE407-658
ANT.
NC
AGC
GND
Vt
+B
IF OUT
OSC OUT
J1
BPF1
C520
.1
C1815GR
Q12
R1
4.7K
.022
C16
22K
R11
R12 22K
C10 .022
R2
22K
R5
1K
C13
100/16
.022
C14
C15
.022
C11
.1
C1675L
Q11
R10
330
R9
1K
.022
C4
R6
2.2K
47/16
C2
R4
560
C3
22U
L2
R3
330
C1
150P
CF100
CF101
1SS176
D8
1SS176
D9
R30
47
A733P
Q8
R14
33K
Q9
C1815GR
R17
4.7K
R13
47K
Q13
C945P
R16
47K
C100
.022
1SS176
D10
47K
R101
Q111
LA1805
CF102
C106
150P
C107
.047
C103
C127
22/10
C102
.022
C101
100/10
R102
10K
T2
FMOSC
CF103
R103
4.7K
R104
47K
R105
22K
C108
.0033
C109
.1
R124
4.7K
C128
.0027
T4
12P
C18A
AMVCD
D3
100K R7
MW
18
20P
C17
.022
R8
100K
C27
470P
AMVCD
D4
C28
25P
T5
C33
.022
R21
1K
.047
C34
C35
10/10
C36
.022
C39
.001
R27
680K
R28
1K
Q10
C1675L
680
R29
C1675L
Q103
R108
82K
C37
001
R110
100
C116
1000P
C115
.001
AM-OSC
FM-OSC
+5.6V
1V
1SS176
T9
R31
1M
1.0
C129
4.7
C131
R35
3.3K
Q15
C945P
R33
330
R37
3.3K
T10
R32
1M
1.0
C130
4.7
C132
R36
3.3K
Q16
C945P
R34
330
R38
3.3K
C112
.022
BANANI

DISPLAY
CIRCUITS

Z201
LCD

CLOCK TIMER ON OFF SLEEP MEMORY
FM MW LW 88:88 5 MHZ KHZ 8
S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 COM4 COM3 COM2 COM1

IC9307AF
R211
B1
B0

*: NOT USED ON LW MODEL
@: NOT USED ON UL MODEL

C120 1.0
R114 470
C126 .47
C125 .47
C121 .0068
C122 .0068
C111 3.3
C113 M.0015
R107 15K
R123 10K
R106 100K
LPF
D103 1SS176
R113 100K
C118 .001
R109 3.3K
C117 .001
D101 1SS176
R112 100K
D102 1SS176

R116 47K
C945P Q101
R115 47K
Q102 C945P
R121 10K
FM-OSC
M202
M203 M205 TV
AM-OSC
M203
M204 M204

FM-ST
D106
R122 560
FM-MONO
*R233 560
*D214
1SS176
*D216
R208 100K
R209 100K
R215 47K
@47K R216
R217 47K
R218 47K
C213 .01
R207 220K
X201
C202 18P
C203 20P
D220 1SS176
R219 100K
C204A .01
C204 33/10
R214 12K
D201 1SS176
R210 1.5K
C214 .01
R206 33
D227 1SS176
D228 1SS176
B201 3V6

C201 1.0
R201 1K
R205 10K
R204 10K
R203 10K
R202 10K
1SS176 1SS176
@D211 D212
S-DIS E1
D209
1SS176
1SS176
@D207
D221 D222 1SS176
Q207
C945R
S204 UP
1SS176
S201 M.S.
S202 DOWN
S205 MEMO
S206 M1
S207 M2
S208 M3
U203
D204 1SS176
D205 1SS176
M206
S209 M4
S210 M5
Q209
SLP
S211
2.2K R234
S212 MODE
Q208
C945P
R243 2.2K
R235 2.2K
SHIFT
S214
R237 2.2K
UP
DN
MS
SS
TMR CNTR
FM
AM
TMR
M207
8K+5.6V

PI 202 33 2W
12VL R242

M201
TU-IND
MUTE
AM
LW
SW+5.6V

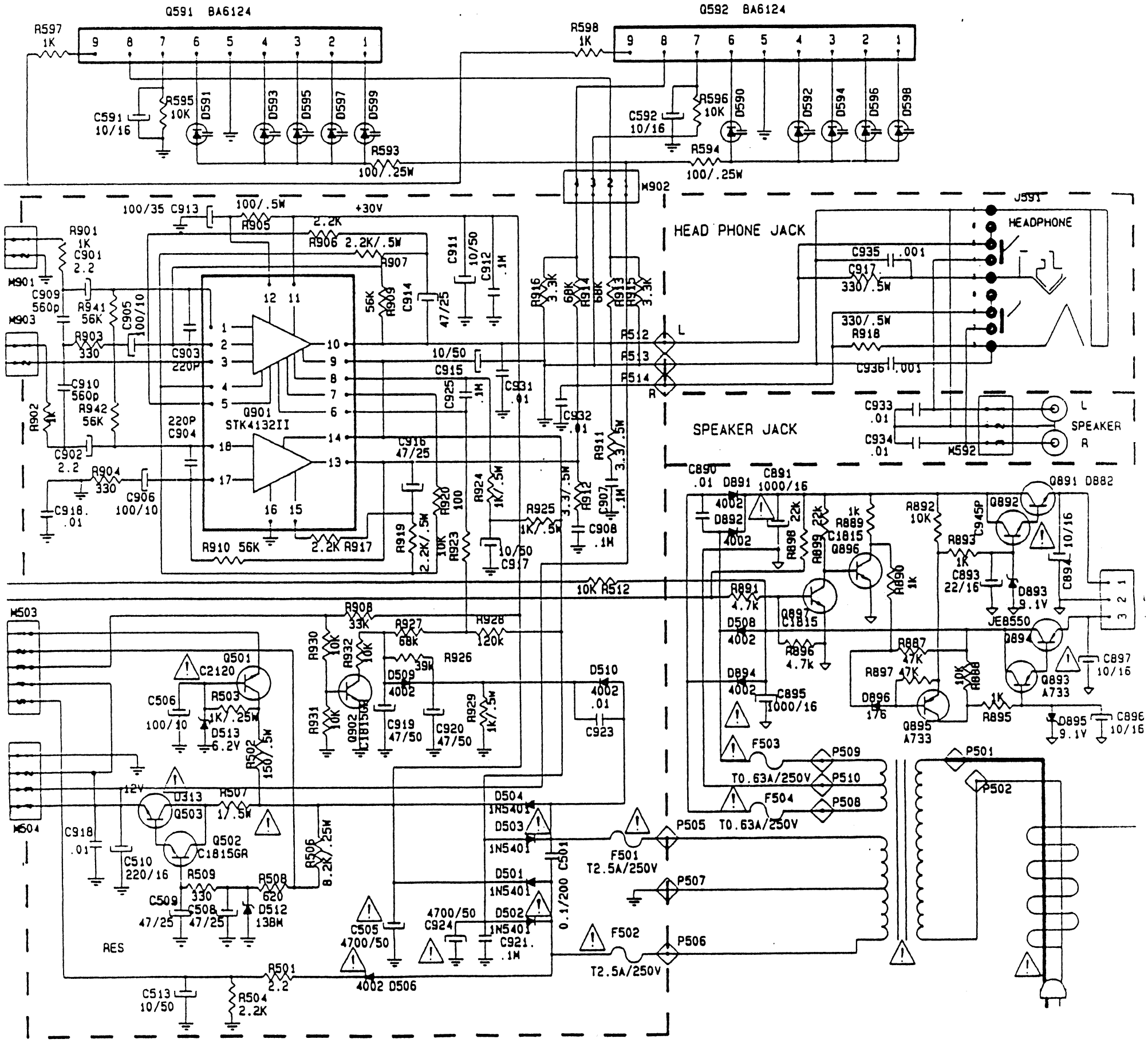
D104 1SS176
+5.6V
R921 120/.5W
Q921 A733P
R120 47K
D922 1SS176
R922 4.7K
C921 100/10
D921 5.6

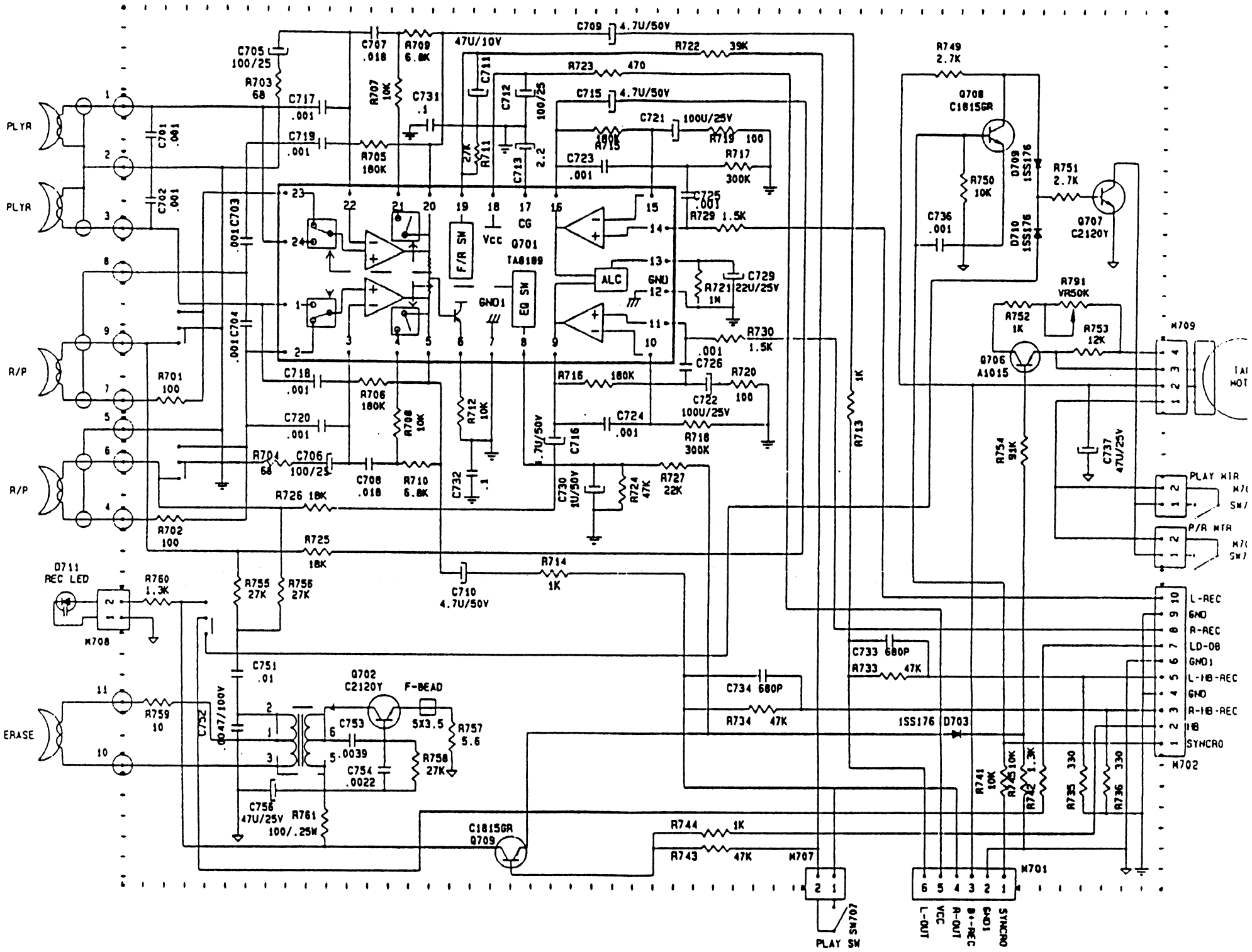
D217 1SS176
D218 1SS176
D224 1SS176
D225
D226 1SS176
R223 3.3K
R222 3.3K
R221 3.3K
R236 47K
S215

R232 1K
R231 10K
R230 4.7K
C207A 2.2
C207 2.2
C208 .022
C209 .01
C210 47/16
C211 1.0
Q201 C945P
C945P Q202

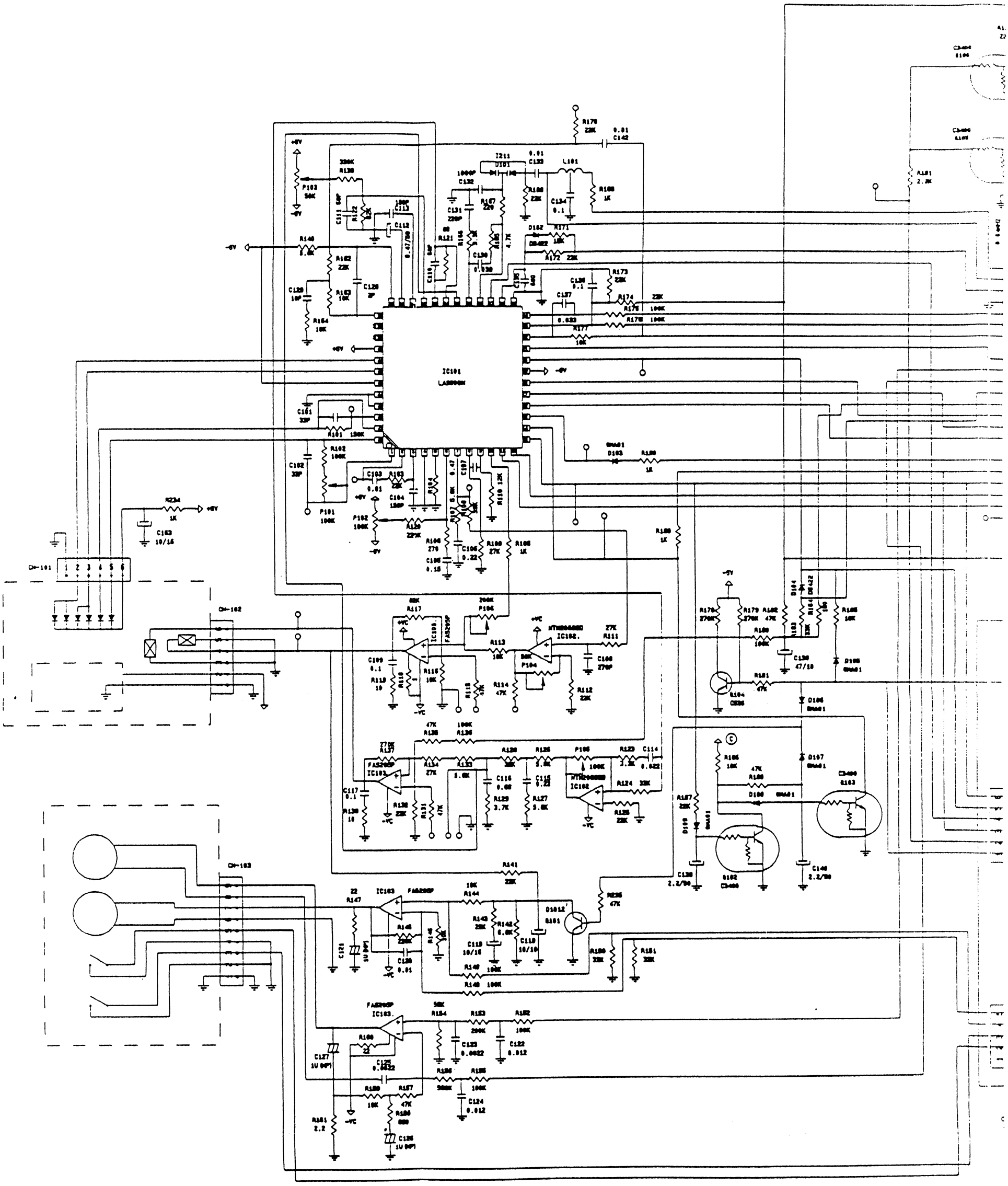
R227 15K
R225 15K
R228 15K
R229 15K
R226 15K
C945R
R224 15K
R245 3.3K
C945P Q203
S221
S222
LW
R246 3.3K
Q204 C945P
S223
R247 3.3K
Q205
C206 .01
FMS
Q210 C945P

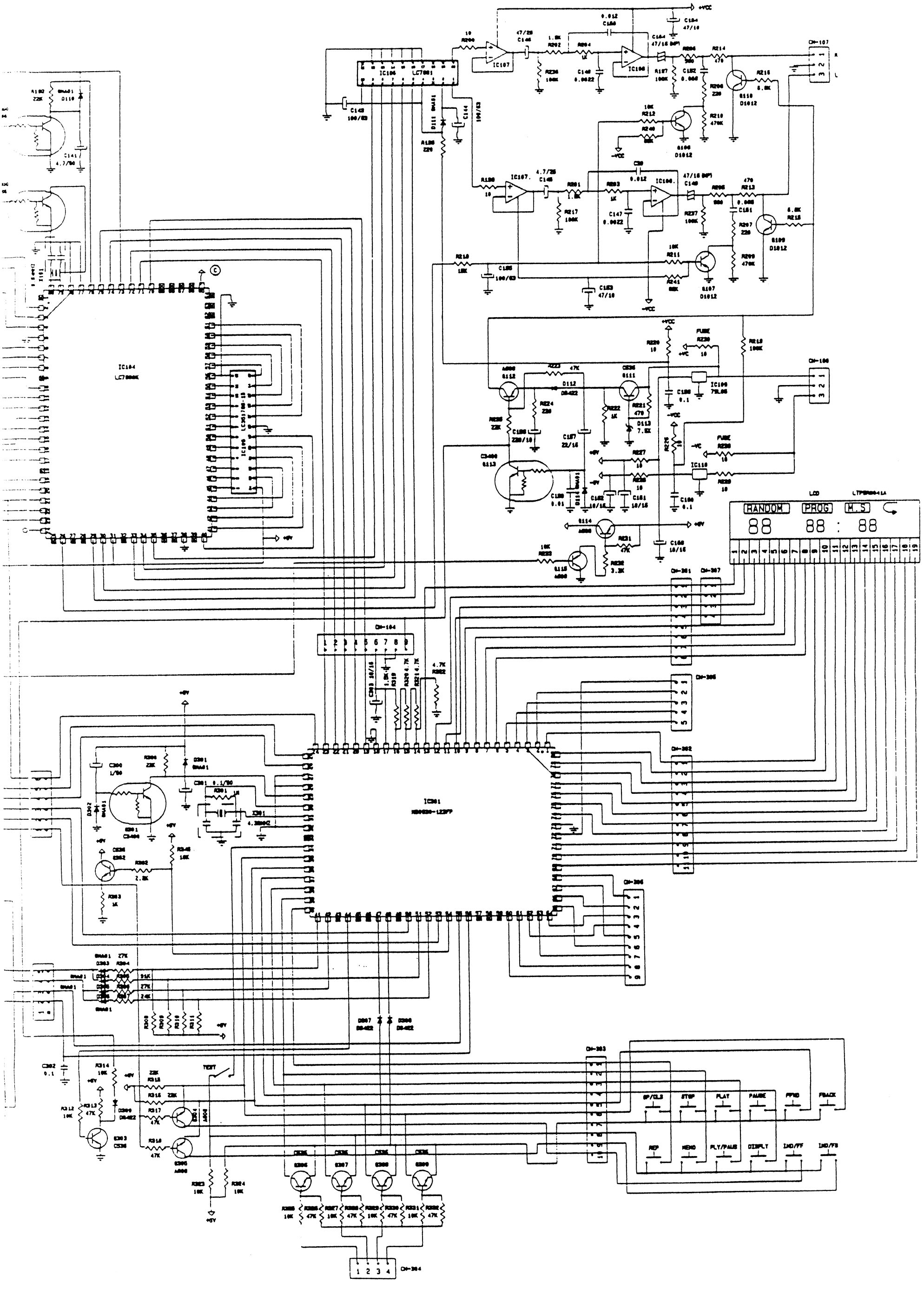
M302
1 2 3 4 5 6
L GND R 12V INR GD

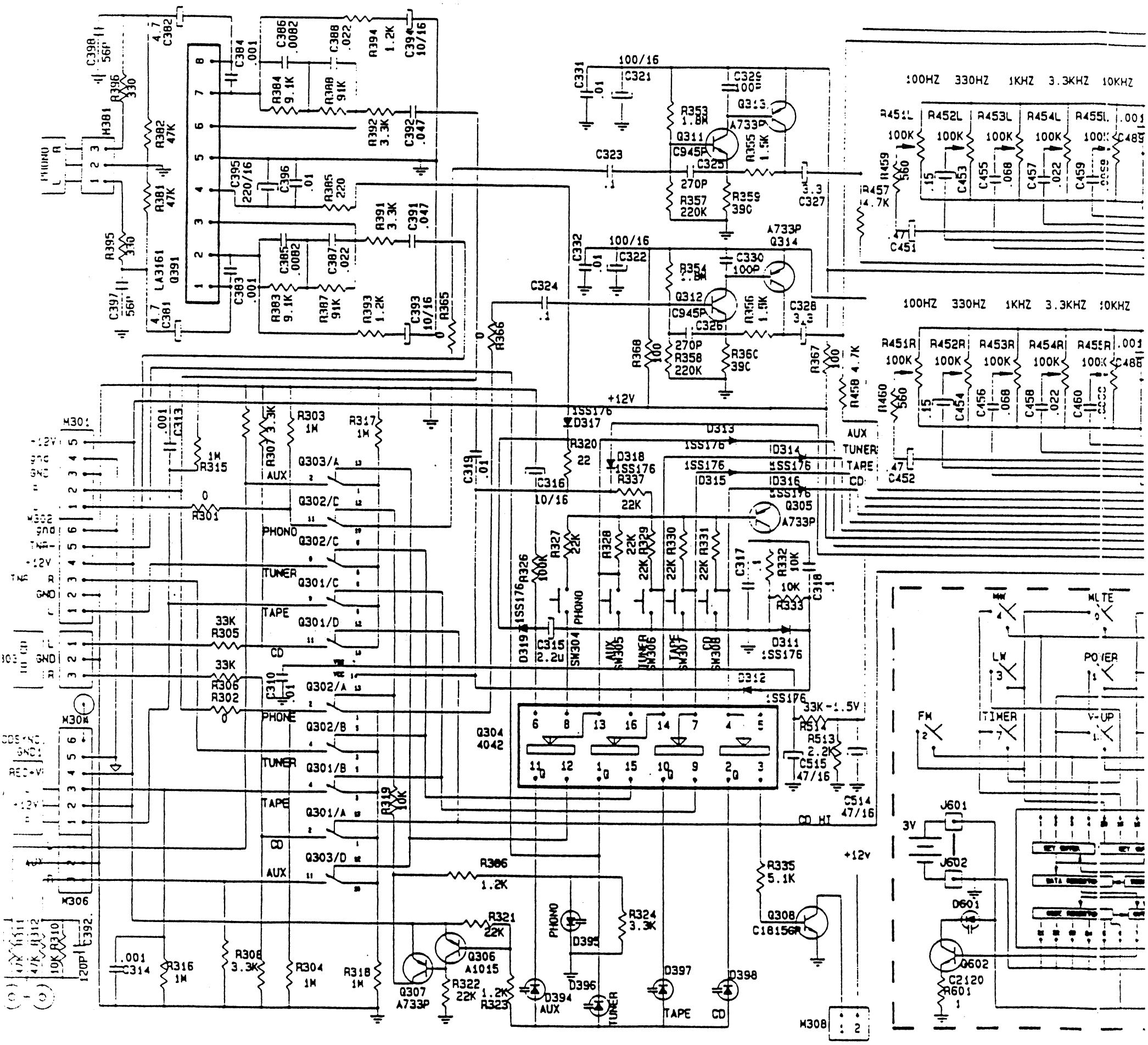

Q591 BA6124
Q592 BA6124
R597 1K
R598 1K
R595 10K
R596 10K
C591 10/16
C592 10/16
D591
D593
D595
D597
D599
D590
D592
D594
D596
D598
R593 100/.25W
R594 100/.25W
M902
J591
HEADPHONE
HEAD PHONE JACK
SPEAKER JACK
SPEAKER
L
R
M592
R901 1K
C901 2.2
M901
C909 560p
M903
R941 56K
C905 100/10
R903 330
C910 560p
R942 56K
R902 1K
C902 2.2
R904 330
C906 100/10
C918. .01
100/35 C913
100/.5W R905
+30V
2.2K R906 2.2K/.5W
R907
C903 220P
C904 220P
Q901 STK4132II
R910 56K
2.2K R917
C914 56K R909
C911 10/50
C912 .1M
C915 10/50
C916 47/25
C917 10/50
C925 .1M
C931 .01
C932 .01
C907 .1M
C908 .1M
R916 3.3K
R914 68K
R913 68K
R915 3.3K
R911 3.3/.5W
R912 3.3/.5W
R919 2.2K/.5W
R920 100
R923 10K
R924 1K/.5W
R925 1K/.5W
R512
R513
R514
C935 .001
C917 330/.5W
R918 330/.5W
C936 .001
C933 .01
C934 .01
C890 .01
C891 1000/16
D891 4002
D892 4002
R898 22k
R899 22k
R889 1k
C1815 Q896
R892 10K
R893 1K
C893 22/16
C945P
Q892
Q891 D882
C894 10/16
D893 9.1V
JE8550
R890 1k
R891 4.7k
Q891 C1815
D508 4002
R896 4.7k
D894 4002
C895 1000/16
D896 176
R887 47K
R897 47K
R888 10K
R895 1K
Q894
Q893 A733
Q895 A733
C897 10/16
D895 9.1V
C896 10/16
M503
M504
R908 33K
R927 68K
R928 120K
R930 10K
R932 10K
R926 39K
D509 4002
R931 10K
Q902 C1815GR
R929 1k/.5W
C919 47/50
C920 47/50
Q501 C2120
C506 100/10
R503 1K/.25W
D513 6.2V
R502 150/.5W
D510 4002
C923 .01
12V
D313
R507 1/.5W
Q503
Q502 C1815GR
C510 220/16
R509 330
R508 620
C509
C508 47/25
D512 13BM
R506 8.2K/.25W
RES
C505 4700/50
C924 4700/50
C921. .1M
4002 D506
D504 1N5401
D503 1N5401
D501 1N5401
D502 1N5401
C501 0.1/200
F501 T2.5A/250V
F502 T2.5A/250V
F503 T0.63A/250V
F504 T0.63A/250V
P505
P507
P506
P509
P510
P508
P501
P502
R501 2.2
C513 10/50
R504 2.2K
10K R512

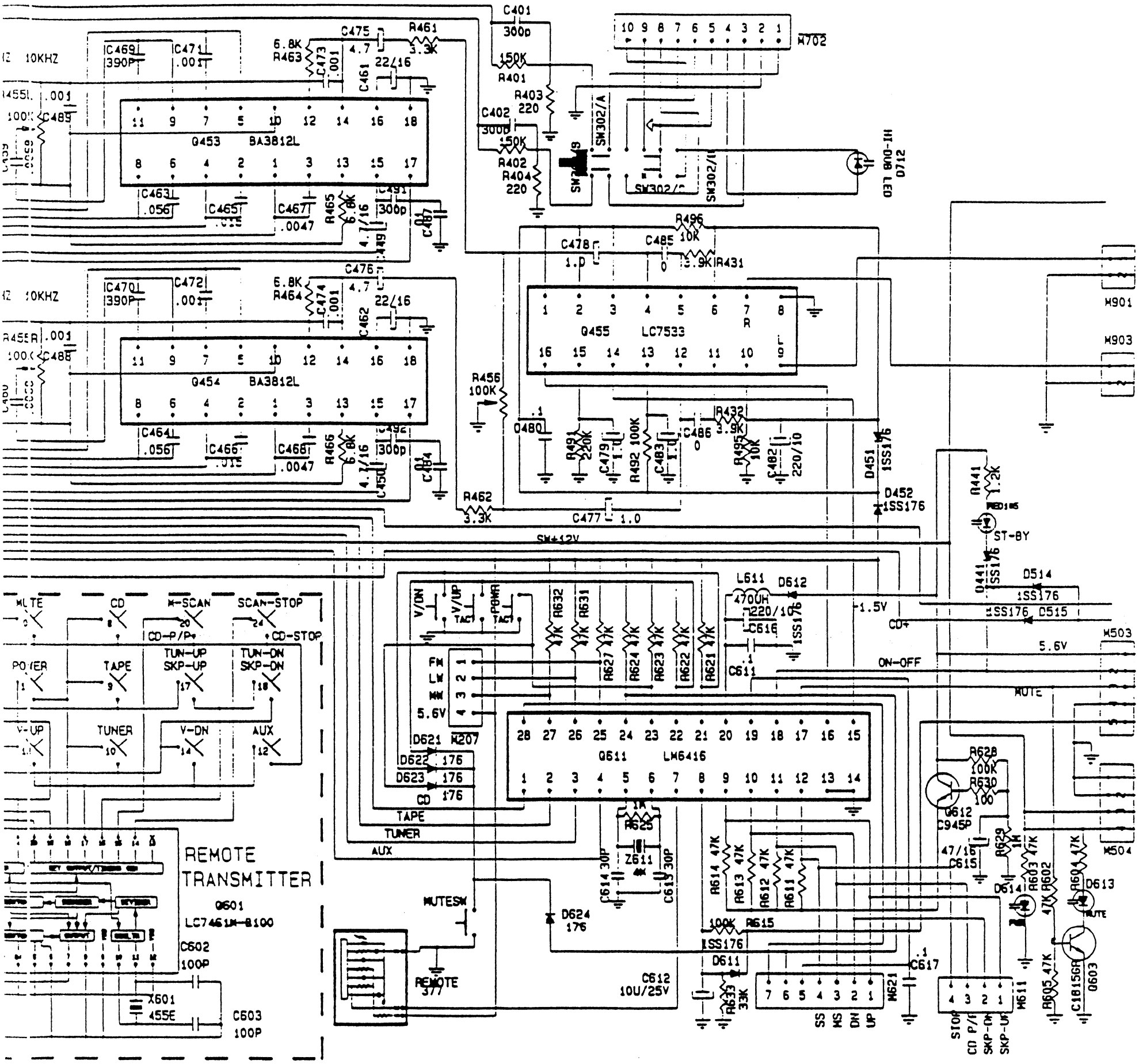

PLYR
PLYR
R/P
R/P
ERASE
C705 100/25
R703 68
C707 .018
R709 6.8K
R707 10K
C731 .1
C717 .001
C719 .001
C701 .001
C702 .001
C703 .001
C704 .001
R701 100
R702 100
R704 68
C706 100/25
C708 .018
R710 6.8K
C718 .001
R706 180K
R708 10K
C720 .001
R705 180K
47U/10V
C711
C712 100/25
C713 2.2
R711 27K
R712 10K
C732 .1
C709 4.7U/50V
R722 39K
R723 470
C715 4.7U/50V
C721 100U/25V
R715 180K
R719 100
R717 300K
C723 .001
C725 .001
R729 1.5K
R730 1.5K
C729 22U/25V
R721 1M
C726 .001
R716 180K
R720 100
C722 100U/25V
C724 .001
R718 300K
C716 4.7U/50V
C730 1U/50V
R724 47K
R727 22K
R726 18K
R725 18K
R714 1K
C710 4.7U/50V
R755 27K
R756 27K
R760 1.3K
D711 REC LED
M708
C751 .01
C752 .047/100V
Q702 C2120Y
F-BEAD
SX3.5
R757 5.6
C753 .0039
C754 .0022
R758 27K
R759 10
C756 47U/25V
R761 100/.25W
C1815GR Q709
R744 1K
R743 47K
M707
PLAY SW
Q701 TA8189
F/R SW
EQ SW
Vcc
GND1
CG
ALC
GND
R749 2.7K
Q708 C1815GR
R750 10K
D709 1SS176
D710 1SS176
R751 2.7K
Q707 C2120Y
C736 .001
R791 VR50K
R752 1K
R753 12K
Q706 A1015
M709
C737 47U/25V
R754 91K
R713 1K
PLAY MTR
P/R MTR
C733 680P
R733 47K
C734 680P
R734 47K
1SS176 D703
R741 10K
R742 1.3K
R735 330
R736 330
L-REC
GND
R-REC
LD-DB
GND1
L-IB-REC
GND
R-IB-REC
IB
SYNCRO
M702
M701
L-OUT
VCC
R-OUT
B+3EC
GND1
SYNCRO

CD SCHEMATIC DIAGRAM




IC104
IC106 LC7981
IC107
IC108
IC109
IC110
IC104
IC301
RANDOM
PROG
M.S
LCD
CN-101
CN-102
CN-103
CN-104
CN-105
CN-106
CN-107
CN-301
CN-302
CN-303
CN-304
CN-305
CN-306
CN-307
TEST
OP/CLS
STOP
PLAY
PAUSE
FFWD
FBACK
REP
MEMO
PLY/PAUS
DISPLY
IMD/FF
IMD/FB


100HZ 330HZ 1KHZ 3.3KHZ 10KHZ
R451L R452L R453L R454L R455L
R451R R452R R453R R454R R455R
C451 C452 C453 C454 C455 C456 C457 C458 C459 C460
R457 4.7K
R458 4.7K
R459 560
R460 560
AUX
TUNER
TAPE
CD
PHONO
M301
M302
M303
M304
M306
M308
R301 0
R302 0
R303 1M
R305 33K
R306 33K
R307 3.3K
R308 3.3K
R315 1M
R316 1M
R317 1M
R318 1M
R319 10K
R320 22
R321 22K
R322 22K
R323 1.2K
R324 3.3K
R326 100K
R327 22K
R328 22K
R329 22K
R330 22K
R331 22K
R332 10K
R333 10K
R335 5.1K
R336 1.2K
R337 22K
R353 1.8M
R354 1.8M
R355 1.5K
R356 1.5K
R357 220K
R358 220K
R359 390
R360 390
R365 0
R366 0
R367 100
R368 100
R381 47K
R382 47K
R383 9.1K
R384 9.1K
R385 220
R387 91K
R388 91K
R391 3.3K
R392 3.3K
R393 1.2K
R394 1.2K
R396 330
R397 330
R513 2.2K
R514 33K
C301 .001
C302 .001
C303 .001
C304 .001
C305 .0082
C306 .0082
C307 .022
C308 .022
C309 .047
C310 .01
C311 .047
C312 10/16
C313 .001
C314 .001
C315 2.2u
C316 10/16
C317 .1
C318 .1
C319 .01
C321 .01
C322 .01
C323 .3
C324 .3
C325 270P
C326 270P
C327 .3
C328 .3
C330 100P
C331 .01
C332 .01
C381 4.7
C382 4.7
C383 .001
C384 .001
C385 .0082
C386 .0082
C387 .022
C388 .022
C391 .047
C392 .047
C393 10/16
C394 10/16
C395 220/16
C396 .01
C397 56P
C398 56P
C515 47/16
C514 47/16
C391 .047
C392 120P
100/16
A733P
C945P
Q303/A
Q302/D
Q302/C
Q301/C
Q301/D
Q302/A
Q302/B
Q301/B
Q301/A
Q303/D
Q304 4042
Q305 A733P
Q306 A1015
Q307 A733P
Q308 C1815GR
Q311
Q312
Q313
Q314
Q602 C2120
D311 1SS176
D312 1SS176
D313 1SS176
D314 1SS176
D315 1SS176
D316 1SS176
D317 1SS176
D318 1SS176
D319 1SS176
D394 AUX
D395 PHONO
D396 TUNER
D397 TAPE
D398 CD
SW304 PHONO
SW305 AUX
SW306 TUNER
SW307 TAPE
SW308 CD
LA3161
Q391
+12V
GND
CD HI
33K-1.5V
MUTE
POWER
FM
TIMER
V-UP
LW
J601
J602
D601
3V
1 2 3 4 5 6 7 8


C401
300p
150K
R401
R403
220
C402
300p
150K
R402
R404
220
SW302/A
SW302/B
SW302/C
M702
10 9 8 7 6 5 4 3 2 1
D712
HI-DUB LED
C475
R461
6.8K
R463
C473
.001
C461
22/16
4.7
3.3K
C469
390P
C471
.001
C485
.001
100K
11 9 7 5 10 12 14 16 18
Q453 BA3812L
8 6 4 2 1 3 13 15 17
C463
.056
C465
C467
.0047
R465
6.8K
4.7/16
C491
300p
C487
C476
6.8K
R464
C474
.001
C462
22/16
C470
390P
C472
.001
C488
.001
100K
11 9 7 5 10 12 14 16 18
Q454 BA3812L
8 6 4 2 1 3 13 15 17
C464
.056
C466
C468
.0047
R466
6.8K
4.7/16
C450
C492
300p
C484
R496
10K
C478
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C485
0
3.9K
R431
1 2 3 4 5 6 7 8
Q455 LC7533
R
16 15 14 13 12 11 10 9
M901
M903
R456
100K
.1
C480
R491
220K
C479
1.0
R492 100K
C483
1.0
C486
0
R433
3.9K
R495
10K
C482
220/10
D451
1SS176
D452
1SS176
R462
3.3K
C477
1.0
R441
1.2K
RED LED
ST-BY
D441
1SS176
D514
1SS176
1SS176 D515
1.5V
CD+
5.6V
M503
ON-OFF
MUTE
SW+12V
MUTE
CD
M-SCAN
SCAN-STOP
CD-P/P+
+CD-STOP
POWER
TAPE
TUN-UP
SKP-UP
TUN-DN
SKP-DN
V-UP
TUNER
V-DN
AUX
V/DN
V/UP
POWER
TACT
TACT
FM
LW
MW
5.6V
D621
D622
D623
CD
176
M207
R632
R631
R627
R624
R623
R622
R621
1K
L611
470UH
C616
220/16
1SS176
C611
.1
28 27 26 25 24 23 22 21 20 19 18 17 16 15
Q611 LM6416
1 2 3 4 5 6 7 8 9 10 11 12 13 14
TAPE
TUNER
AUX
R625
1K
Z611
C614 30P
C613 30P
R614 47K
R613 47K
R612 47K
R611 47K
R628
100K
R630
100
Q612
C945P
47/16
C615
R629
1K
R603 47K
R602 47K
R604 47K
D614
D613
MUTE
Q603
C1815GR
R605 47K
M504
MUTESW
D624
176
100K R615
1SS176
D611
C617
.1
C612
10U/25V
R633
33K
M621
7 6 5 4 3 2 1
SS MS DN UP
M611
4 3 2 1
STOP
CD P/P
SKP-DN
SKP-UP
REMOTE
377
REMOTE
TRANSMITTER
Q601
LC7461M-8100
C602
100P
X601
455E
C603
100P